ELSEVIER

Journal of Non-Crystalline Solids 222 (1997) 443–446

JOURNAL OF
NON-CRYSTALLINE SOLIDS

Author index

Adriaenssens, G., see Tikhomirov, V. 222 (1997) 296
Akai, T., J. Nishii, M. Yamashita and H. Yamanaka, Chemical behavior of platinum-group metals in oxide glasses 222 (1997) 304
Allan, D.C., see Seward III, T.P. 222 (1997) 407
Allen, P.G., see Marasinghe, G.K. 222 (1997) 144
Araujo, R., Influence of boron–oxygen bonding on glass properties 222 (1997) 25
Arndt, J., see Tan, C.Z. 222 (1997) 391
Ast, D.G., see Couillard, J.G. 222 (1997) 429
Azegami, K., see Yano, T. 222 (1997) 94

Bass, J.D., see Youngman, R.E. 222 (1997) 190
Beall Fowler, W. and A.H. Edwards, Theory of defects and defect processes in silicon dioxide 222 (1997) 33
Benino, Y., see Komatsu, T. 222 (1997) 206
Bernal-Oliva, A.M., see Márquez, E. 222 (1997) 250
Blache, V., see Peters, J. 222 (1997) 113
Blakely, J.M., see Couillard, J.G. 222 (1997) 429
Blanchet, T.A., see Peng, Y.-L. 222 (1997) 376
Boolchand, P., see Feng, X. 222 (1997) 137
Booth, C.H., see Marasinghe, G.K. 222 (1997) 144
Borrelli, N.F., see Seward III, T.P. 222 (1997) 407
Bresser, W.J., see Feng, X. 222 (1997) 137
Brow, R.K. and D.R. Tallant, Structural design of sealing glasses 222 (1997) 396
Brow, R.K., see Sidebottom, D.L. 222 (1997) 282
Brow, R.K., see Sidebottom, D.L. 222 (1997) 354

Cappelletti, R.L., see Cobb, M. 222 (1997) 348
Cardinal, T., E. Fargin, G. Le Flem and S. Leboiteux, Correlations between structural properties of Nb_2O_5–$NaPO_3$–$Na_2B_4O_7$ glasses and non-linear optical activities 222 (1997) 228
Chakravorty, D., see Roy, B. 222 (1997) 102
Cobb, M., R.L. Cappelletti and D.A. Drabold, Structure, dynamics and electronic properties of liquid and glassy $GeSe_2$ 222 (1997) 348
Condrate Sr., R.A., see Lee, D. 222 (1997) 435
Couillard, J.G., D.G. Ast, C. Umbach, J.M. Blakely, C.B. Moore and F.P. Fehlner, Chemical treatment of glass substrates 222 (1997) 429

Day, D.E., see Marasinghe, G.K. 222 (1997) 144
Ding, Y., T. Nanba, Y. Miura and A. Osaka, Wavelet structural analysis of silica glasses manufactured by different methods 222 (1997) 50
Drabold, D.A., see Cobb, M. 222 (1997) 348
Duffrène, L., see Youngman, R.E. 222 (1997) 190

Eckert, H., see Kanert, O. 222 (1997) 321
Edwards, A.H., see Beall Fowler, W. 222 (1997) 33

Fargin, E., see Cardinal, T. 222 (1997) 228
Fehlner, F.P., see Couillard, J.G. 222 (1997) 429
Feng, X., W.J. Bresser, M. Zhang, B. Goodman and P. Boolchand, Role of network connectivity on the elastic, plastic and thermal behavior of covalent glasses 222 (1997) 137
Firstenberg, K., see Senapati, U. 222 (1997) 153
Frischat, G.H., see Rädlein, E. 222 (1997) 69
Fujino, S. and K. Morinaga, Material dispersion and its compositional parameter of oxide glasses 222 (1997) 316

Gaskell, P.H., Structure and properties of glasses – how far do we need to go? 222 (1997) 1
Giulotto, E., see Greaves, G.N. 222 (1997) 13
Glass, W., J. Toulouse and P.A. Tick, Visible emission from rare earth ions in nanocrystal-containing glasses 222 (1997) 258
Gomez, F., P. Vast, Ph. Llewellyn and F. Rouquerol, Dehydroxylation mechanisms of polyphosphate glasses in relation to temperature and pressure 222 (1997) 415
González-Leal, J.M., see Márquez, E. 222 (1997) 250
Goodman, B., see Feng, X. 222 (1997) 137
Greaves, G.N., W. Smith, E. Giulotto and E. Pantos, Local structure, microstructure and glass properties 222 (1997) 13
Green, P.F., see Sidebottom, D.L. 222 (1997) 354

Hamilton, J.P. and C.G. Pantano, Effects of glass structure on the corrosion behavior of sodium-aluminosilicate glasses 222 (1997) 167

Hari, P., P.C. Taylor, W.A. King and W.C. LaCourse, Nuclear quadrupole resonance spectra of drawing-induced crystallization in As_2Se_3 fibers 222 (1997) 422
Hartmann, P., see Olsen, K.K. 222 (1997) 199
Hensley, D., see Krasteva, V. 222 (1997) 235
Hensley, D.K., see Magruder III, R.H. 222 (1997) 243
Hertogen, P., see Tikhomirov, V. 222 (1997) 296
Hirao, K., see Qiu, J. 222 (1997) 290
Hirao, K., see Shimizugawa, Y. 222 (1997) 310
Hruschka, M.A., see Sidebottom, D.L. 222 (1997) 282
Huang, W.C., see Jain, H. 222 (1997) 361

Ikushima, A.J., see Saito, K. 222 (1997) 329
Ingram, M.D., Optical basicities and structural dynamics in glassy materials 222 (1997) 42
Inoue, H., K. Soga and A. Makishima, Structure and optical properties of Eu^{3+}-doped fluoroaluminate and fluorophosphate glasses 222 (1997) 212
Inoue, H., see Soga, K. 222 (1997) 272
Inoue, S., see Soga, K. 222 (1997) 272
Ishii, K., see Nishikawa, N. 222 (1997) 221
Ito, D., see Miyake, Y. 222 (1997) 266
Ito, D., see Nishikawa, N. 222 (1997) 221
Ito, Y., D. Winkler, H. Jain and D.B. Williams, Application of extended energy loss fine structure in determining the structure of amorphous SiO_2 222 (1997) 83

Jäger, C., see Olsen, K.K. 222 (1997) 199
Jain, H., W.C. Huang, E.I. Kamitsos and Y.D. Yiannopoulos, Significance of intermediate range structure for electrical conduction in alkali germanate glasses 222 (1997) 361
Jain, H., see Ito, Y. 222 (1997) 83
Jain, H., see Kamitsos, E.I. 222 (1997) 59
Jain, H., see Kanert, O. 222 (1997) 321
Jain, H., see Ngai, K.L. 222 (1997) 383
Jain, H., see Peters, J. 222 (1997) 113
Jain, H., see Roy, B. 222 (1997) 102
Jiménez-Garay, R., see Márquez, E. 222 (1997) 250
Jiménez-Garay, R., see Vázquez, J. 222 (1997) 182

Kakiuchida, H., see Saito, K. 222 (1997) 329
Kamitsos, E.I., Y.D. Yiannopoulos, C.P. Varsamis and H. Jain, Structure–property correlation in glasses by infrared reflectance spectroscopy 222 (1997) 59
Kamitsos, E.I., see Jain, H. 222 (1997) 361
Kanert, O., R. Küchler, J. Peters, A. Volmari, H. Jain, H. Eckert and E. Ratai, Structural basis of low-frequency excitations in silicophosphate glasses 222 (1997) 321
Kanert, O., see Ngai, K.L. 222 (1997) 383
Kanert, O., see Peters, J. 222 (1997) 113
Karabulut, M., see Marasinghe, G.K. 222 (1997) 144
Khaled, J., R. Watanabe, R. Sato and T. Komatsu, Implications of Cu valence on the structure of Bi-based superconducting precursor glasses 222 (1997) 175
Kieffer, J., see Youngman, R.E. 222 (1997) 190
King, W.A., see Hari, P. 222 (1997) 422
Komatsu, T., T. Noguchi and Y. Benino, Heat capacity changes and structural relaxation at glass transition in mixed-alkali tellurite glasses 222 (1997) 206
Komatsu, T., see Khaled, J. 222 (1997) 175
Krasteva, V., D. Hensley and G. Sigel Jr., The effect of compositional variations on the properties of rare-earth doped Ge–S–I chalcohalide glasses 222 (1997) 235
Krasteva, V., see Tikhomirov, V. 222 (1997) 296
Küchler, R., see Kanert, O. 222 (1997) 321
Küchler, R., see Peters, J. 222 (1997) 113

LaCourse, W.C., see Hari, P. 222 (1997) 422
LaCourse, W.C., see Senturk, U. 222 (1997) 160
Leboiteux, S., see Cardinal, T. 222 (1997) 228
Lee, D. and R.A. Condrate Sr., Infrared reflectance spectral characterization of various organic coatings on glasses 222 (1997) 435
Lee, J., T. Yano, S. Shibata and M. Yamane, Structure and properties of ion-exchanged Na_2O–Cu_2O–Al_2O_3–SiO_2 glass system 222 (1997) 120
Lee, M., S.K. Saha, C.T. Moynihan and J. Schroeder, Non-exponential structural relaxation, anomalous light scattering and nanoscale inhomogeneities in glasses 222 (1997) 369
Lee, M., see Schroeder, J. 222 (1997) 342
Lee, Y.-K., Y.L. Peng and M. Tomozawa, IR reflection spectroscopy of a soda-lime glass surface during ion-exchange 222 (1997) 125
Le Flem, G., see Cardinal, T. 222 (1997) 228
Llewellyn, Ph., see Gomez, F. 222 (1997) 415

Magruder III, R.H., R.A. Weeks, R.A. Zuhr and D.K. Hensley, Effects of MeV implanted boron on the optical properties of silica 222 (1997) 243
Makishima, A., see Inoue, H. 222 (1997) 212
Makishima, A., see Soga, K. 222 (1997) 272
Marasinghe, G.K., M. Karabulut, C.S. Ray, D.E. Day, M.G. Shumsky, W.B. Yelon, C.H. Booth, P.G. Allen and D.K. Shuh, Structural features of iron phosphate glasses 222 (1997) 144
Márquez, E., A.M. Bernal-Oliva, J.M. González-Leal, R. Prieto-Alcón and R. Jiménez-Garay, On the irreversible photobleaching phenomenon in obliquely-evaporated GeS_2 glass films 222 (1997) 250
McIntosh, C., J. Toulouse and P. Tick, The Boson peak in alkali silicate glasses 222 (1997) 335
Miura, Y., see Ding, Y. 222 (1997) 50

Miyake, Y., H. Nishikawa, E. Watanabe and D. Ito, Changes in the optical properties of Ge-doped silica glass during exposure to a KrF excimer laser 222 (1997) 266
Miyake, Y., see Nishikawa, N. 222 (1997) 221
Moore, C.B., see Couillard, J.G. 222 (1997) 429
Morinaga, K., see Fujino, S. 222 (1997) 316
Moynihan, C.T., see Lee, M. 222 (1997) 369
Muruganandam, K. and M. Seshasayee, Structural study of $LiPO_3$–TeO_2 glasses 222 (1997) 131

Nagasawa, K., see Nishikawa, N. 222 (1997) 221
Nanba, T., see Ding, Y. 222 (1997) 50
Ngai, K.L., H. Jain and O. Kanert, Physical origins of the $\omega^{1.0}$-dependent and the ω^{q}-dependent ($q \approx 1.3$) contributions to the conductivity relaxation of glassy ionic conductors 222 (1997) 383
Nishii, J., see Akai, T. 222 (1997) 304
Nishikawa, H., see Miyake, Y. 222 (1997) 266
Nishikawa, N., Y. Miyake, E. Watanabe, D. Ito, K.S. Seol, Y. Ohki, K. Ishii, Y. Sakurai and K. Nagasawa, Photoluminescence of oxygen-deficient-type defects in a-SiO_2 222 (1997) 221
Noguchi, T., see Komatsu, T. 222 (1997) 206

Ohki, Y., see Nishikawa, N. 222 (1997) 221
Olsen, K.K., J.W. Zwanziger, P. Hartmann and C. Jäger, Short and intermediate range order in glass: nuclear magnetic resonance probes of site connectivities and distances 222 (1997) 199
Osaka, A., see Ding, Y. 222 (1997) 50

Pantano, C.G., see Hamilton, J.P. 222 (1997) 167
Pantos, E., see Greaves, G.N. 222 (1997) 13
Peng, Y.-L., M. Tomozawa and T.A. Blanchet, Tensile stress-acceleration of the surface structural relaxation of SiO_2 optical fibers 222 (1997) 376
Peng, Y.L., see Lee, Y.-K. 222 (1997) 125
Persans, P.D., see Schroeder, J. 222 (1997) 342
Peters, J., H. Jain, O. Kanert, R. Küchler and V. Blache, Chemical structure of lithium silicophosphate glasses 222 (1997) 113
Peters, J., see Kanert, O. 222 (1997) 321
Potter, B.G., see Sidebottom, D.L. 222 (1997) 282
Prieto-Alcón, R., see Márquez, E. 222 (1997) 250

Qiu, J., Y. Shimizugawa, N. Sugimoto and K. Hirao, Photostimulated luminescence in borate glasses doped with Eu^{2+} and Sm^{3+} ions 222 (1997) 290
Qiu, J.R., see Shimizugawa, Y. 222 (1997) 310

Rädlein, E. and G.H. Frischat, Atomic force microscopy as a tool to correlate nanostructure to properties of glasses 222 (1997) 69
Ratai, E., see Kanert, O. 222 (1997) 321
Ray, C.S., see Marasinghe, G.K. 222 (1997) 144
Rouquerol, F., see Gomez, F. 222 (1997) 415
Roy, B., H. Jain, S. Roy and D. Chakravorty, The development of nanosize silver particles in an ion exchanged silicate glass matrix 222 (1997) 102
Roy, S., see Roy, B. 222 (1997) 102

Saha, S.K., see Lee, M. 222 (1997) 369
Saha, S.K., see Schroeder, J. 222 (1997) 342
Saito, K., H. Kakiuchida and A.J. Ikushima, Investigation of the origin of the Rayleigh scattering in SiO_2 glass 222 (1997) 329
Sakuragi, S., see Soga, K. 222 (1997) 272
Sakurai, Y., see Nishikawa, N. 222 (1997) 221
Sato, R., see Khaled, J. 222 (1997) 175
Schroeder, J., M. Lee, S.K. Saha and P.D. Persans, Raman scattering in glasses at high temperature: the Boson peak and structural relaxation kinetics in glasses 222 (1997) 342
Schroeder, J., see Lee, M. 222 (1997) 369
Senapati, U., K. Firstenberg and A.K. Varshneya, Structure–property inter-relations in chalcogenide glasses and their practical implications 222 (1997) 153
Senturk, U., J.R. Varner and W.C. LaCourse, Structure–hardness relation for high-temperature SO_2-dealkalized float glass 222 (1997) 160
Seol, K.S., see Nishikawa, N. 222 (1997) 221
Seshasayee, M., see Muruganandam, K. 222 (1997) 131
Seward III, T.P., C. Smith, N.F. Borrelli and D.C. Allan, Densification of synthetic fused silica under ultraviolet irradiation 222 (1997) 407
Shibata, S., see Lee, J. 222 (1997) 120
Shibata, S., see Yano, T. 222 (1997) 94
Shimizugawa, Y., J.R. Qiu and K. Hirao, Local structure around reduced rare earth ions doped in borate glasses by XAFS 222 (1997) 310
Shimizugawa, Y., see Qiu, J. 222 (1997) 290
Shuh, D.K., see Marasinghe, G.K. 222 (1997) 144
Shumsky, M.G., see Marasinghe, G.K. 222 (1997) 144
Sidebottom, D.L., M.A. Hruschka, B.G. Potter and R.K. Brow, Structure and optical properties of rare earth-doped zinc oxyhalide tellurite glasses 222 (1997) 282
Sidebottom, D.L., P.F. Green and R.K. Brow, Structural correlations in the ac conductivity of ion-containing glasses 222 (1997) 354
Sigel, G., see Tikhomirov, V. 222 (1997) 296
Sigel Jr., G., see Krasteva, V. 222 (1997) 235
Smith, C., see Seward III, T.P. 222 (1997) 407
Smith, W., see Greaves, G.N. 222 (1997) 13
Soga, K., M. Tsuda, S. Sakuragi, H. Inoue, S. Inoue and A. Makishima, Effects of chloride introduction on the optical properties

and the upconversion emission with 980-nm excitation of Er^{3+} in ZBLAN fluoride glasses 222 (1997) 272
Soga, K., see Inoue, H. 222 (1997) 212
Sugimoto, N., see Qiu, J. 222 (1997) 290

Tallant, D.R., see Brow, R.K. 222 (1997) 396
Tan, C.Z. and J. Arndt, Faraday effect in TiO_2–SiO_2 glasses 222 (1997) 391
Taylor, P.C., see Hari, P. 222 (1997) 422
Tick, P., see McIntosh, C. 222 (1997) 335
Tick, P.A., see Glass, W. 222 (1997) 258
Tikhomirov, V., V. Krasteva, P. Hertogen, G. Adriaenssens and G. Sigel, Photoinduced anisotropy in Pr-doped Ge–S–I glasses with varying composition and Pr content 222 (1997) 296
Tomozawa, M., see Lee, Y.-K. 222 (1997) 125
Tomozawa, M., see Peng, Y.-L. 222 (1997) 376
Toulouse, J., see Glass, W. 222 (1997) 258
Toulouse, J., see McIntosh, C. 222 (1997) 335
Tsuda, M., see Soga, K. 222 (1997) 272

Umbach, C., see Couillard, J.G. 222 (1997) 429

Varner, J.R., see Senturk, U. 222 (1997) 160
Varsamis, C.P., see Kamitsos, E.I. 222 (1997) 59
Varshneya, A.K., see Senapati, U. 222 (1997) 153
Vast, P., see Gomez, F. 222 (1997) 415
Vázquez, J., C. Wagner, P. Villares and R. Jiménez-Garay, Applications to practical cases of the basic parameters for the local order of glassy ternary alloys 222 (1997) 182
Villares, P., see Vázquez, J. 222 (1997) 182
Volmari, A., see Kanert, O. 222 (1997) 321

Wagner, C., see Vázquez, J. 222 (1997) 182
Watanabe, E., see Miyake, Y. 222 (1997) 266
Watanabe, E., see Nishikawa, N. 222 (1997) 221
Watanabe, R., see Khaled, J. 222 (1997) 175
Weeks, R.A., see Magruder III, R.H. 222 (1997) 243
Williams, D.B., see Ito, Y. 222 (1997) 83
Winkler, D., see Ito, Y. 222 (1997) 83

Yamanaka, H., see Akai, T. 222 (1997) 304
Yamane, M., see Lee, J. 222 (1997) 120
Yamane, M., see Yano, T. 222 (1997) 94
Yamashita, M., see Akai, T. 222 (1997) 304
Yano, T., K. Azegami, S. Shibata and M. Yamane, Chemical state of oxygen in Ag^+/Na^+ ion-exchanged sodium silicate glass 222 (1997) 94
Yano, T., see Lee, J. 222 (1997) 120
Yelon, W.B., see Marasinghe, G.K. 222 (1997) 144
Yiannopoulos, Y.D., see Jain, H. 222 (1997) 361
Yiannopoulos, Y.D., see Kamitsos, E.I. 222 (1997) 59
Youngman, R.E., J. Kieffer, J.D. Bass and L. Duffrène, Extended structural integrity in network glasses and liquids 222 (1997) 190

Zhang, M., see Feng, X. 222 (1997) 137
Zuhr, R.A., see Magruder III, R.H. 222 (1997) 243
Zwanziger, J.W., see Olsen, K.K. 222 (1997) 199

ELSEVIER

Journal of Non-Crystalline Solids 222 (1997) 447–450

JOURNAL OF
NON-CRYSTALLINE SOLIDS

Subject index

Alkali Borate Glasses
Diffusion, Mixed-Alkali Effect, Modelling, Small Angle X-ray Scattering 222 (1997) 13
Luminescence, Photoinduced Effects, Rare Earth Ions 222 (1997) 290
Oxidation Reduction, Rare Earth Ions 222 (1997) 310

Alkali Silicate Glasses
Conductivity, Ion Exchange 222 (1997) 120
Infra-red Absorption, Oxides, Polymer Solutions, Surface Reactions 222 (1997) 435
Ion Exchange, Nuclear Magnetic Resonance, XPS 222 (1997) 94
Optical Scattering 222 (1997) 335

Atomic Force Microscopy
Surface Properties 222 (1997) 69

Borates
Oxides, Processing Variables 222 (1997) 396
Structure, Thermal Properties 222 (1997) 25

Brillouin Scattering
Halide Glasses 222 (1997) 342
Oxides, Structure 222 (1997) 190

Ceramics
Halide Glasses, Luminescence, Oxides, Rare Earth Ions 222 (1997) 258

Chalcogenides
Coordination, Hardness, Raman Spectra 222 (1997) 137
Defects, Photoinduced Effects 222 (1997) 296
Electronic Structure, Molecular Dynamics Simulation, Structure 222 (1997) 348
Luminescence, Rare Earth Ions 222 (1997) 282
Optical Properties, Rare Earth Ions 222 (1997) 235

Chalcogenide Glasses
Crystallization, Fibers, Nuclear Quadrupole Resonances 222 (1997) 422
Density, Glass Transition, Hardness 222 (1997) 153
Deposition Techniques, Optical Properties, Photoinduced Effects 222 (1997) 250

Colloids
Particles, Reduction, XPS 222 (1997) 102

Conductivity
Alkali Silicate Glasses, Ion Exchange 222 (1997) 120
Nuclear Magnetic Resonance, Phosphates, Two-Level System, X-ray Diffraction 222 (1997) 321

Coordination
Chalcogenides, Hardness, Raman Spectra 222 (1997) 137
Modelling 222 (1997) 182

Crystallization
Chalcogenide Glasses, Fibers, Nuclear Quadrupole Resonances 222 (1997) 422
Density, Glass Transition, Glasses Containing Transition Metal Ions, Oxides 222 (1997) 175

Defects
Chalcogenides, Photoinduced Effects 222 (1997) 296
Luminescence, Photo-emission, Silica 222 (1997) 221
Modelling, Silica 222 (1997) 33

Densification
Lasers, Photoinduced Effects 222 (1997) 407

Density
Chalcogenide Glasses, Glass Transition, Hardness 222 (1997) 153
Crystallization, Glass Transition, Glasses Containing Transition Metal Ions, Oxides 222 (1997) 175
Germanates, Ionic Conductivity, Raman Spectra 222 (1997) 361

Deposition Techniques
Chalcogenide Glasses, Optical Properties, Photoinduced Effects 222 (1997) 250

Diffusion
Alkali Borate Glasses, Mixed-Alkali Effect, Modelling, Small Angle X-ray Scattering 222 (1997) 13

Electrical Properties
Modelling, Structure 222 (1997) 354

Electron Diffraction
Electron–Lattice Interactions, Silica, Structure 222 (1997) 83

Electronic Structure
Chalcogenides, Molecular Dynamics Simulation, Structure 222 (1997) 348

Electron–Lattice Interactions
Electron Diffraction, Silica, Structure 222 (1997) 83

Fibers
Chalcogenide Glasses, Crystallization, Nuclear Quadrupole Resonances 222 (1997) 422
Silica, Stress Measurement, Stress Relaxation 222 (1997) 376

Fragility
Heat Capacity, Oxides, Relaxation 222 (1997) 206

Germanates
Density, Ionic Conductivity, Raman Spectra 222 (1997) 361
Infra-red Absorption, Structure 222 (1997) 59

Glass Transition
Chalcogenide Glasses, Density, Hardness 222 (1997) 153
Crystallization, Density, Glasses Containing Transition Metal Ions, Oxides 222 (1997) 175
Light Scattering, Modelling 222 (1997) 369

Glasses Containing Transition Metal Ions
Crystallization, Density, Glass Transition, Oxides 222 (1997) 175
Mössbauer Effect, Phosphates, Structure 222 (1997) 144

Halide Glasses
Brillouin Scattering 222 (1997) 342
Ceramics, Luminescence, Oxides, Rare Earth Ions 222 (1997) 258
Luminescence, Photoresponse, Rare Earth Ions 222 (1997) 272

Hardness
Chalcogenides, Coordination, Raman Spectra 222 (1997) 137
Chalcogenide Glasses, Density, Glass Transition 222 (1997) 153
Surface Properties, Surface Reactions 222 (1997) 160

Heat Capacity
Fragility, Oxides, Relaxation 222 (1997) 206

Hydrogen Effects
Refractive Index, Silica 222 (1997) 266

Hydrogen in Glass
Phosphates, Thermal Properties 222 (1997) 415

Infra-red Absorption
Alkali Silicate Glasses, Oxides, Polymer Solutions, Surface Reactions 222 (1997) 435
Germanates, Structure 222 (1997) 59
Ion Exchange, Thermal Properties 222 (1997) 125

Ion Exchange
Alkali Silicate Glasses, Conductivity 222 (1997) 120
Alkali Silicate Glasses, Nuclear Magnetic Resonance, XPS 222 (1997) 94
Infra-red Absorption, Thermal Properties 222 (1997) 125

Ion Implantation
Lasers, Optical Properties 222 (1997) 243

Ionic Conductivity
Density, Germanates, Raman Spectra 222 (1997) 361
Modelling 222 (1997) 42
Modelling 222 (1997) 383

Lasers
Densification, Photoinduced Effects 222 (1997) 407
Ion Implantation, Optical Properties 222 (1997) 243

Light Scattering
Glass Transition, Modelling 222 (1997) 369
Liquids, Silica, Supercooled Liquids 222 (1997) 329
Optical Properties, Oxides, Particles 222 (1997) 304

Liquids
Light Scattering, Silica, Supercooled Liquids 222 (1997) 329

Luminescence
Alkali Borate Glasses, Photoinduced Effects, Rare Earth Ions 222 (1997) 290
Ceramics, Halide Glasses, Oxides, Rare Earth Ions 222 (1997) 258
Chalcogenides, Rare Earth Ions 222 (1997) 282
Defects, Photo-emission, Silica 222 (1997) 221
Halide Glasses, Photoresponse, Rare Earth Ions 222 (1997) 272
Optical Properties, Phosphates, Rare Earth Ions 222 (1997) 212

Mixed-Alkali Effect
Alkali Borate Glasses, Diffusion, Modelling, Small Angle X-ray Scattering 222 (1997) 13

Modelling
Alkali Borate Glasses, Diffusion, Mixed-Alkali Effect, Small Angle X-ray Scattering 222 (1997) 13
Coordination 222 (1997) 182
Defects, Silica 222 (1997) 33
Electrical Properties, Structure 222 (1997) 354
Glass Transition, Light Scattering 222 (1997) 369
Ionic Conductivity 222 (1997) 42
Ionic Conductivity 222 (1997) 383
Silica 222 (1997) 50
Theory 222 (1997) 1

Molecular Dynamics Simulation
Chalcogenides, Electronic Structure, Structure 222 (1997) 348

Mössbauer Effect
Glasses Containing Transition Metal Ions, Phosphates, Structure 222 (1997) 144

Non-linear Optics
Phosphates, Rare Earth Ions, Theory 222 (1997) 228

Nuclear Magnetic Resonance
Alkali Silicate Glasses, Ion Exchange, XPS 222 (1997) 94
Conductivity, Phosphates, Two-Level System, X-ray Diffraction 222 (1997) 321
Phosphates, Structure 222 (1997) 199

Nuclear Quadrupole Resonances
Chalcogenide Glasses, Crystallization, Fibers 222 (1997) 422

Optical Properties
Chalcogenides, Rare Earth Ions 222 (1997) 235
Chalcogenide Glasses, Deposition Techniques, Photoinduced Effects 222 (1997) 250
Ion Implantation, Lasers 222 (1997) 243
Light Scattering, Oxides, Particles 222 (1997) 304
Luminescence, Phosphates, Rare Earth Ions 222 (1997) 212
Oxides, Refractive Index 222 (1997) 316
Oxides, Silica 222 (1997) 391

Optical Scattering
Alkali Silicate Glasses 222 (1997) 335

Oxidation Reduction
Alkali Borate Glasses, Rare Earth Ions 222 (1997) 310

Oxides
Alkali Silicate Glasses, Infra-red Absorption, Polymer Solutions, Surface Reactions 222 (1997) 435
Borates, Processing Variables 222 (1997) 396
Brillouin Scattering, Structure 222 (1997) 190
Ceramics, Halide Glasses, Luminescence, Rare Earth Ions 222 (1997) 258
Crystallization, Density, Glass Transition, Glasses Containing Transition Metal Ions 222 (1997) 175
Fragility, Heat Capacity, Relaxation 222 (1997) 206
Light Scattering, Optical Properties, Particles 222 (1997) 304
Optical Properties, Refractive Index 222 (1997) 316
Optical Properties, Silica 222 (1997) 391
Phosphates, Raman Spectra, X-ray Diffraction 222 (1997) 131
Surface Analysis, Surface Properties, Surface Reactions 222 (1997) 167
Surface Analysis, Surface Properties, Surface Reactions 222 (1997) 429

Particles
Colloids, Reduction, XPS 222 (1997) 102
Light Scattering, Optical Properties, Oxides 222 (1997) 304

Phosphates
Conductivity, Nuclear Magnetic Resonance, Two-Level System, X-ray Diffraction 222 (1997) 321
Glasses Containing Transition Metal Ions, Mössbauer Effect, Structure 222 (1997) 144
Hydrogen in Glass, Thermal Properties 222 (1997) 415
Luminescence, Optical Properties, Rare Earth Ions 222 (1997) 212
Non-linear Optics, Rare Earth Ions, Theory 222 (1997) 228
Nuclear Magnetic Resonance, Structure 222 (1997) 199
Oxides, Raman Spectra, X-ray Diffraction 222 (1997) 131
Structure, XPS 222 (1997) 113

Photo-emission
Defects, Luminescence, Silica 222 (1997) 221

Photoinduced Effects
Alkali Borate Glasses, Luminescence, Rare Earth Ions 222 (1997) 290
Chalcogenides, Defects 222 (1997) 296
Chalcogenide Glasses, Deposition Techniques, Optical Properties 222 (1997) 250
Densification, Lasers 222 (1997) 407

Photoresponse
Halide Glasses, Luminescence, Rare Earth Ions 222 (1997) 272

Polymer Solutions
Alkali Silicate Glasses, Infra-red Absorption, Oxides, Surface Reactions 222 (1997) 435

Processing Variables
Borates, Oxides 222 (1997) 396

Raman Spectra
Chalcogenides, Coordination, Hardness 222 (1997) 137
Density, Germanates, Ionic Conductivity 222 (1997) 361
Oxides, Phosphates, X-ray Diffraction 222 (1997) 131

Rare Earth Ions
Alkali Borate Glasses, Luminescence, Photoinduced Effects 222 (1997) 290
Alkali Borate Glasses, Oxidation Reduction 222 (1997) 310
Ceramics, Halide Glasses, Luminescence, Oxides 222 (1997) 258
Chalcogenides, Luminescence 222 (1997) 282
Chalcogenides, Optical Properties 222 (1997) 235
Halide Glasses, Luminescence, Photoresponse 222 (1997) 272
Luminescence, Optical Properties, Phosphates 222 (1997) 212
Non-linear Optics, Phosphates, Theory 222 (1997) 228

Reduction
Colloids, Particles, XPS 222 (1997) 102

Refractive Index
Hydrogen Effects, Silica 222 (1997) 266
Optical Properties, Oxides 222 (1997) 316

Relaxation
Fragility, Heat Capacity, Oxides 222 (1997) 206

Silica
Defects, Luminescence, Photo-emission 222 (1997) 221
Defects, Modelling 222 (1997) 33
Electron Diffraction, Electron–Lattice Interactions, Structure 222 (1997) 83
Fibers, Stress Measurement, Stress Relaxation 222 (1997) 376
Hydrogen Effects, Refractive Index 222 (1997) 266
Light Scattering, Liquids, Supercooled Liquids 222 (1997) 329
Modelling 222 (1997) 50
Optical Properties, Oxides 222 (1997) 391

Small Angle X-ray Scattering
Alkali Borate Glasses, Diffusion, Mixed-Alkali Effect, Modelling 222 (1997) 13

Stress Measurement
Fibers, Silica, Stress Relaxation 222 (1997) 376

Stress Relaxation
Fibers, Silica, Stress Measurement 222 (1997) 376

Structure
Borates, Thermal Properties 222 (1997) 25
Brillouin Scattering, Oxides 222 (1997) 190
Chalcogenides, Electronic Structure, Molecular Dynamics Simulation 222 (1997) 348
Electrical Properties, Modelling 222 (1997) 354
Electron Diffraction, Electron–Lattice Interactions, Silica 222 (1997) 83
Germanates, Infra-red Absorption 222 (1997) 59
Glasses Containing Transition Metal Ions, Mössbauer Effect, Phosphates 222 (1997) 144
Nuclear Magnetic Resonance, Phosphates 222 (1997) 199
Phosphates, XPS 222 (1997) 113

Supercooled Liquids
Light Scattering, Liquids, Silica 222 (1997) 329

Surface Analysis
Oxides, Surface Properties, Surface Reactions 222 (1997) 167
Oxides, Surface Properties, Surface Reactions 222 (1997) 429

Surface Properties
Atomic Force Microscopy 222 (1997) 69
Hardness, Surface Reactions 222 (1997) 160
Oxides, Surface Analysis, Surface Reactions 222 (1997) 167
Oxides, Surface Analysis, Surface Reactions 222 (1997) 429

Surface Reactions
Alkali Silicate Glasses, Infra-red Absorption, Oxides, Polymer Solutions 222 (1997) 435
Hardness, Surface Properties 222 (1997) 160
Oxides, Surface Analysis, Surface Properties 222 (1997) 167
Oxides, Surface Analysis, Surface Properties 222 (1997) 429

Theory
Modelling 222 (1997) 1
Non-linear Optics, Phosphates, Rare Earth Ions 222 (1997) 228

Thermal Properties
Borates, Structure 222 (1997) 25
Hydrogen in Glass, Phosphates 222 (1997) 415
Infra-red Absorption, Ion Exchange 222 (1997) 125

Two-Level System
Conductivity, Nuclear Magnetic Resonance, Phosphates, X-ray Diffraction 222 (1997) 321

XPS
Alkali Silicate Glasses, Ion Exchange, Nuclear Magnetic Resonance 222 (1997) 94
Colloids, Particles, Reduction 222 (1997) 102
Phosphates, Structure 222 (1997) 113

X-ray Diffraction
Conductivity, Nuclear Magnetic Resonance, Phosphates, Two-Level System 222 (1997) 321
Oxides, Phosphates, Raman Spectra 222 (1997) 131